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NOTICE OF ALLOWANCE AND FEE(S) DUE

24923

7590

09/23/2003

PAUL S MADAN MADAN, MOSSMAN & SRIRAM, PC 2603 AUGUSTA, SUITE 700 HOUSTON, TX 77057-1130 BARTH, VINCENT P

ART UNIT CLASS-SUBCLASS

356-070000

DATE MAILED: 09/23/2003

2877

 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONFIRMATION NO.

 09/975,161
 10/11/2001
 J. Kevyn Smith
 194-27668-US
 9119

TITLE OF INVENTION: REAL-TIME ON-LINE SENSING AND CONTROL OF MINERAL SCALE DEPOSITION FROM FORMATION FLUIDS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$0	\$0	\$0	12/23/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATEN <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHT THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPO PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM TH MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THE STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOV REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (O AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WIL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is n claiming SMALL ENTITY status, check the box below and enclo the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) w your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

C mplete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

o: Mail Mail Stop ISSUE FEE
Commissioner for Patents
Alexandria, Virginia 22313-1450
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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed wh appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

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7590

09/23/2003

PAUL S MADAN MADAN, MOSSMAN & SRIRAM, PC 2603 AUGUSTA, SUITE 700 HOUSTON, TX 77057-1130 Note: A certificate of mailing can only be used for domestic mailings of Fee(s) Transmittal. This certificate cannot be used for any other accompany papers. Each additional paper, such as an assignment or formal drawing, m have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the Un States Postal Service with sufficient postage for first class mail in an envel addressed to the Mail Stop ISSUE FEE address above, or being facsim transmitted to the USPTO, on the date indicated below

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/975,161	10/11/2001	J. Kevyn Smith	194-27668-US	9119

TITLE OF INVENTION: REAL-TIME ON-LINE SENSING AND CONTROL OF MINERAL SCALE DEPOSITION FROM FORMATION FLUIDS

APPLN. TYPE	SMALL ENTITY	ISSUE F	EE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	nonprovisional NO			\$0	\$0	12/23/2003
EXAM	ART UNIT		CLASS-SUBCLASS	7		
BARTH, V	2877	2877 356-070000		_		
Address form PTO/SB/12 "Fee Address" indication	nce address (or Change of (Correspondence	2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.			
(A) NAME OF ASSIGNE	EE	(B) RESIDENO	ar on the patent. Inclusion of a Completion of this form is NOCE: (CITY and STATE OR CC	UNTRY)	
Please check the appropriate 4a. The following fee(s) are 6					corporation or other private gre	oup entity 🖸 governm
☐ Issue Fee	enciosed:	40	. Payment of	()		
	To shook in the amount of the rector is checiosed.					
	☐ Publication Fee ☐ Payment by credit card. Form PTO-2038 is attached.					
□ Advance Order - # of Copies			The Director is hereby authorized by charge the required fee(s), or credit any overpayment Deposit Account Number (enclose an extra copy of this form).			
Director for Patents is reques	ted to apply the Issue Fee a	nd Publication Fee		re-apply any previously paid		ntified above.
(Authorized Signature)		(Date)				

NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.

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09/975,161		10/11/2001	J. Kevyn Smith	J. Kevyn Smith 194-27668-US	
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PAUL S MA	DAN			BARTH, V	INCENT P
MADAN, MO 2603 AUGUS		z SRIRAM, PC Z 700		ART UNIT	PAPER NUMBER
HOUSTON, T	X 77057-1	130		2877	- -
			•	DATE MAILED: 09/23/200	3

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after t mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a ha months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date th determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retriev (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



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APPLICATION NO). I	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/975,161 10/11/2001		10/11/2001	J. Kevyn Smith	194-27668-US	9119
24923	7590	09/23/2003		EXAM	INER
PAUL S MA	DAN			BARTH, V	INCENT P
		SRIRAM, PC		ART UNIT	PAPER NUMBER
2603 AUGUS	•			ART UNIT	FAFER NOMBER
HOUSTON, T	X //05/-1	130		2877	
				DATE MAIL ED. 00/22/2003	,

Notice of Fee Increase on October 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2003, then t amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be increase in fees effective on October 1, 2003. See Revision of Patent Fees for Fiscal Year 2004; Final Rule, 68 Fe Reg. 41532, 41533, 41534 (July 14, 2003).

The current fee schedule is accessible from (http://www.uspto.gov/main/howtofees.htm).

If the fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due" but not the correct amount in vie of the fee increase, a "Notice of Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processi delays associated with mailing of a "Notice of Pay Balance of Issue Fee," if the response to the Notice of Allowan is to be filed on or after October 1, 2003 (or mailed with a certificate of mailing on or after October 1, 2003), t issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and t response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to t issue fee now due, then the difference between the issue fee amount at the time the response is filed and t previously-paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eigh Edition, August 2001).

Effective October 1, 2003, 37 CFR 1.18 is amended by revising paragraphs (a) through (c) to read as set forth below Section 1.18 Patent post allowance (including issue) fees.

(a) Issue fee for issuing each original or reissue patent, except a design or plant patent:

By a small entity (Sec. 1.27(a))............\$665.00 By other than a small entity............\$1,330.00

(b) Issue fee for issuing a design patent:

(c) Issue fee for issuing a plant patent:

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of t Office of Patent Publication at (703) 305-8283.

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	Application No.	Applicant(s)				
Notice of Allowability	09/975,161	SMITH ET AL.				
Notice of Allowability	Examin r	Art Unit				
	Vincent P. Barth	2877				
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS				
 This communication is responsive to <u>26 August 2003</u>. The allowed claim(s) is/are <u>1,3-11 and 13-21</u>. The drawings filed on <u>09 January 2002</u> are accepted by the Examiner. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). All Some* None The drawings filed on <u>09 January 2002</u> are accepted by the Examiner. 						
 Certified copies of the priority documents have 						
Certified copies of the priority documents have	been received in Application No	·				
3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received:						
5. Acknowledgment is made of a claim for domestic priority ur	nder 35 U.S.C. § 119(e) (to a provision	onal application).				
(a) The translation of the foreign language provisional a	pplication has been received.					
6. Acknowledgment is made of a claim for domestic priority ur	nder 35 U.S.C. §§ 120 and/or 121.					
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 7. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.						
 8. CORRECTED DRAWINGS must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No (b) including changes required by the proposed drawing correction filed, which has been approved by the Examiner. (c) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No 						
Identifying indicia such as the application number (see 37 CFR 1. each sheet.	84(c)) should be written on the drawin	gs in the front (not the back) of				
9. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.						
Attachment(s)						
 1 ☐ Notice of References Cited (PTO-892) 3 ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 5 ☑ Information Disclosure Statements (PTO-1449), Paper No. 10 7 ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	4☐ Interview Summa 2. 6☐ Examiner's Amer	I Patent Application (PTO-152) ary (PTO-413), Paper No adment/Comment ment of Reasons for Allowance				

Application/Control Number: 09/975,161

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DETAILED ACTION

Preliminary Comments

1. The instant Office Action is in response to Applicants' request for a continued examination (RCE) under 37 CFR 1.114 filed on 26 August 2003. The Second Supplemental Information Disclosure Statement submitted with the RCE has been reviewed, signed by the Examiner, and attached hereto. Accordingly, the following represents a statement of reasons for allowability.

Allowable Subject Matter

- 2. Claims 1, 3-11 and 13-21 are allowable, since the prior art references, either considered alone or in combination, do not disclose or render obvious the limitations set forth therein.
- Referring to Claim 1, the prior art references, either considered alone or in combination, do not disclose or render obvious the limitations whereby the determination of the mineral scale deposition rate in a formation fluid is accomplished by placing an optical probe in contact with the fluid and measuring the changes in the refractive index, and in which the probe is an ATR (attenuated total reflectance) probe, in combination with the remaining limitations in the claim. Claims 3-10 are allowable based on their dependency upon the claim from which each is dependent. Referring to Claim 11, the prior art references, either considered alone or in combination, do not disclose or render obvious the limitations whereby controlling the mineral scale deposition rate in a formation fluid is accomplished by placing an optical probe in contact with the fluid and measuring the changes in the refractive index, in which the probe is an ATR

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(attenuated total reflectance) probe, and determining the on-set and rate, if any, of mineral scale deposition from the formation fluid as a function of the changes in the refractive index at the probe surface, in combination with the remaining limitations in the claim. Claims 13-20 are allowable based on their dependency upon the claim from which each is dependent. Referring to Claim 21, the prior art references, either considered alone or in combination, do not disclose or render obvious the limitations whereby a system for controlling mineral scale deposition rate in a formation fluid comprises an ATR probe which can measure changes in the refractive index at the probe surface and a processor for determining from the data the rate of deposition of the mineral scale, in combination with the remaining limitations in the claim.

Comments

- 4. The previous Statement of Reasons for Allowability contained a typographical error which has been corrected herein. In particular, the reasons for allowability of Claim 21 recited language which was redundant to Claim 11. From the context of the entire prosecution record, the reasons for allowability of Claim 21 were likely clear despite such error. Nevertheless, it has been corrected in the instant Office Action to clarify the record.
- 5. The language used in the statement of reasons for allowability herein have been altered slightly from the previous statement of reasons for allowability to reflect recent changes in PTO policy, in which more detailed statement of reasons are required of Examiners. Accordingly, the slightly revised statement of reasons for allowability should not be construed to represent any substantive change in the opinion of the Examiner, and do not have any bearing on the new prior

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art submitted in Applicants' Second Supplemental Information Disclosure Statement submitted with the RCE.

CONCLUSION

- 6. Applicants' Claims 1, 3-11 and 13-21 are allowable based on the reasons set forth above.
- 7. Applicants' Claims 2 and 12 had been cancelled during earlier stages of the prosecution.
- 8. Any inquiries concerning this communication from the examiner should be directed to Vincent P. Barth, whose telephone number is 703-605-0750, and who may be ordinarily reached from 9:00 a.m. to 5:30 p.m., Monday through Friday. The official fax number for communications to the group is 703-872-9306. Note that this fax number is new, and replaces the numbers provided in previous communications from the group.
- 9. If attempts to reach the examiner prove unsuccessful, the examiner's supervisor is Frank G. Font, who may be reached at 703-308-4881.
- 10. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1782.

Richard A. Rosenberger Primary Examine